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MELLON INSTITUTE OF INDUSTRIAL RESEARCH

University of Pittsburgh

AUG 3 1940

PROGRESS REPORT For the Month ended August 12, 1940
Carbide and Carbon Chemicals Corporation Industrial Fellowship No. 274-3

Subjects under)
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2-Ethyl Hexanol (Octyl Alcohol) - See Eye Burns

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H. F. Smyth, Jr.

Eye Burns

In view of evidence that commercial octyl alcohol (2-ethyl hexanol) contains traces of aldehydes, samples were tested to see if removal of the impurity will reduce eye injury. Two years ago an old commercial sample produced necrosis of the rabbit eye in a volume of 0.002 ml. but not in 0.001 ml. Three additional commercial samples tested in October produced necrosis in a volume of 0.001 ml., as did one of them washed with sodium bisulfite solution. This last sample further washed with sodium hydroxide and water did not give necrosis in a volume of 0.001 ml. but did in 0.002 ml. The decrease in irritation produced by these three successive washes is small and might vanish as the sample aged. Accordingly, the washing appears unjustified on the basis of eye irritation.

C. P. Carpenter

Henry F. Smyth, Jr.

Henry F. Smyth, Jr.
SENIOR INDUSTRIAL FELLOW

Charles P. Carpenter

Charles P. Carpenter
INDUSTRIAL FELLOW

November 1, 1940-mah

CERTIFICATE OF AUTHENTICITY

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